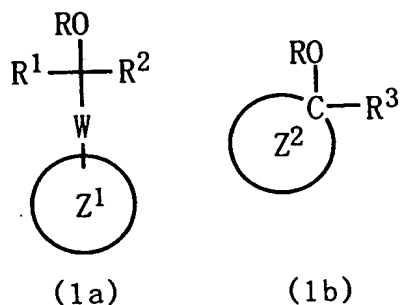


ABSTRACT

A fluorine-atom-containing polymerizable
unsaturated-monomer of the present invention is represented
5 by the following formula (1a) or (1b):



wherein each of a ring Z^1 and a ring Z^2 is an alicyclic carbon
ring; when the alicyclic carbon ring is multi-cyclic, a part
of atoms constituting the ring may be substituted by an oxygen
atom, a sulfur atom or a nitrogen atom; an atom constituting
10 the ring Z^1 and the ring Z^2 may have a substituent; each of R^1 , R^2
and R^3 is an alkyl group or a fluoroalkyl group; R is an specific
unsaturated acyl group; provided that at least one of R^1 and
 R^2 is a fluorine atom or a fluoroalkyl group in the formula
15 (1a), and in the formula (1b) (i) the ring Z^2 is bonded by a
fluorine atom or a fluoroalkyl group, or (ii) R^3 is a fluoroalkyl
group.